

REMARKS

By this amendment, claims 1-31 are pending, in which 1-4, 6, 8, 9, 12-14, 16, 18, 19, 21, 23, 24, 27, 29, and 30 are currently amended, and claims 32 and 33 are newly presented. Care was taken to avoid the introduction of new matter.

The Office Action mailed April 18, 2003 rejected claims 1, 2, 6, 7, 9, 10, 11, 13-22, 24-26, and 28-31 as obvious under 35 U.S.C. § 103 based on *Schulzrinne et al.* (1999) in view of *Arao et al.* (1999), claims 3-5 as obvious under 35 U.S.C. § 103 based on *Schulzrinne et al.* in view of *Arao et al.*, and further in view of *Eriksson et al.* (1999), and claims 8, 12, 23, and 27 as obvious under 35 U.S.C. § 103 based on *Schulzrinne et al.* in view of *Arao et al.* and further in view of *Boyle et al.* (1999).

In the interest of expediting prosecution, independent claims 1 and 16 are amended, and now recite “providing information to at least one server of the communication session, said information including at least one of resource usage, policy, authorization, authentication, and accounting information, according to **a plurality of communication protocols including a first protocol for communication session establishment, a second protocol for deploying policy, and a third protocol for authorization of the communication session** according to a QoS level.”

Schulzrinne et al. lacks any disclosure of “a plurality of communication protocols including a first protocol for communication session establishment, a second protocol for deploying policy, and a third protocol for authorization of the communication session.” *Schulzrinne et al.* (Per Abstract) is directed to the three protocols that are used for the different aspects of a basic phone call which are: the called party has to be alerted, the path of voice bits has to be established, and the resources that may have to be set aside for the call. These three aspects in Internet telephony are handled by a Session Initiation Protocol (SIP), a routing

protocol such as BGP, and a resource reservations protocol such as RSVP. (Page 1) While *Schulzrinne et al.* describes different protocols used in internet telephony, the reference does not mention “a plurality of communication protocols including a first protocol for **communication session establishment**, a second protocol for **deploying policy**, and a third protocol for **authorization of the communication session**” as required by claims 1, 2, 6, 7, 9, 10, 11, 13-22, 24-26, and 28-31.

Arao et al. also fails to disclose this feature. *Arao et al.* (per Abstract) is directed to the Abstract Switch Toolkit (AST), a component-based framework for defining and administrating IP network control and management. The reference states that with the possibility of service level differentiation in IP, more and more functional complexity is located at the forwarding nodes rather than at the communicating host machines. (Page 1388, column 2, ¶ 2) Therefore, a dynamic management of network resources is required to assure appropriate configuration of network nodes to address issues like address conversion, accounting, security, mobility, routing and QoS in the presence of differentiated flow handling. (Page 1388, column 2, ¶ 2)

The AST system in *Arao et al.* provides management functionality for switching routers that can be used to implement management functions. (Page 1390, column 1, ¶ 3) *Arao et al.* describes a situation where service level differentiation can be used is in an environment where a company with geographically distributed offices could be interested in certain QoS, routing and security characteristics for its selected applications. (Page 1389, column 2, paragraph 6) Further, in order to decide if forwarding of packets, access of requested network resources or services, or accounting, auditing or logging should be started or stopped, it may be necessary to define policy conditions in an operations manner. (Page 1389, Column 2, paragraph 6) However, *Arao et al.* does not disclose any “plurality of communication protocols including a first protocol for communication session establishment, a second protocol for deploying policy, and a third

protocol for authorization of the communication session” as required by claims 1 and 16. *Arao et al.* merely describes that policy conditions need to be defined if certain tasks such as forwarding of packets or auditing should be started or stopped.

Dependent claims 2, 6, 7, 9-11, 13-15, 17-22, 24-26, and 28-31 are allowable for at least the same reasons as their independent claims and are separately patentable on their own merits.

As regards to the obviousness rejections of claims 3-5, 8, 12, 23, and 27, Applicant submits that the deficiencies of *Schulzrinne et al.* and *Arao et al.* are not cured by the secondary references of *Eriksson et al.* and *Boyle et al.* particularly with respect to “a plurality of communication protocols including a first protocol for communication session establishment, a second protocol for deploying policy, and a third protocol for authorization of the communication session according to a QoS level” of claims 1 and 16. *Eriksson et al.* (per Abstract) simply describes Session Initiation Protocol and Dynamic synchronous Transfer Mode. *Boyle et al.* (per Abstract) is directed to a query and response protocol that is used to exchange policy information between a policy server and its clients.

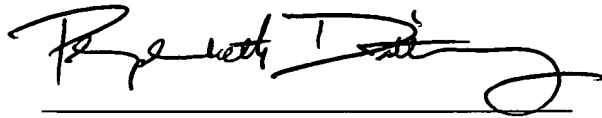
Attention is drawn to newly added claims 32 and 33. Independent claims 32 recites “receiving a request for authorization of a communication session from a policy server according to a first protocol for authorization and usage reporting, wherein the policy server forwards the request in response to a message from a proxy server requesting authentication, authorization, and accounting according to a second protocol for policy deployment, the proxy server initiating the communication session between clients according to a third communication protocol specifying connection setup and teardown.” This feature is not disclosed by any of the applied references and therefore claim 32 is allowable. Claim 33 depends from independent claim 32 and is thus allowable and separately patentable on its own merit.

Therefore, the present application, as amended, overcomes the rejections of record and is in condition for allowance. Favorable consideration is respectfully requested. If any unresolved issues remain, it is respectfully requested that the Examiner telephone the undersigned attorney at (703) 425-8508 so that such issues may be resolved as expeditiously as possible.

Respectfully Submitted,

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Date



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